



Zia Mine

1. Location/Land Status: The Zia Mine is located on U.S. Forest Service land within Section 15, T12N, R9W on the USGS Dos Lomas quadrangle (35.265222N, 107.776944W) some 9 miles northeast of Grants, NM. Physical access to the mine can be gained by traveling 8 miles east from Grants on Lobo Canyon Road, northwest (left) approximately 4.5 miles on USFS 450, then 2.5 miles north on an undesignated access road to the mine. Conditions on USFS 450 can be dangerous, therefore SMA recommends checking with Chuck Hagerman at the USFS station in Grants before traveling this area.

2. Human Activity: No evidence of human activity was noted.

3. Radiological Survey: Radiological survey results were as follows: ground surface maximum of 140 μ R/hour and minimum of 12 μ R/hour. Four-foot elevation maximum was 140 μ R/hour and minimum was 10 μ R/hour. Background radiation level is approximately 10 μ R/hour.

4. Mine Disturbance: The mine itself consists of two moderate sized excavations: the first approximately 285 ft. by 100 ft by 6 feet deep, with a small trench extending to the west on the northwest edge of the site, and the second approximately 120 ft. by 300 ft. by a maximum of 25 feet deep in the center of the site. There are numerous (approximately 100) rock piles on site with a total volume of approximately 1,500 cubic yards. In the south high wall of the deeper pit there is a small adit approximately 3 ft. high by 8 ft. wide by 15 ft. deep. On the southwestern edge of the site there is an abandoned road grader.

5. Plant Community: The surrounding area is characteristic pinon-juniper scrub with moderately grazed grasses. Area consists of approximately 20% trees, 10% shrubs, 10% forbs, 30% grass, and 30% bare ground.

6. Soils: Soils at the site are sands and minor silty clays, slopes of 0-5 percent, 0-2 inches loam, 2-24 inches sandy gravels, bedrock at 24-48 inches.

7. Wildlife: No wildlife or wildlife signs were observed.

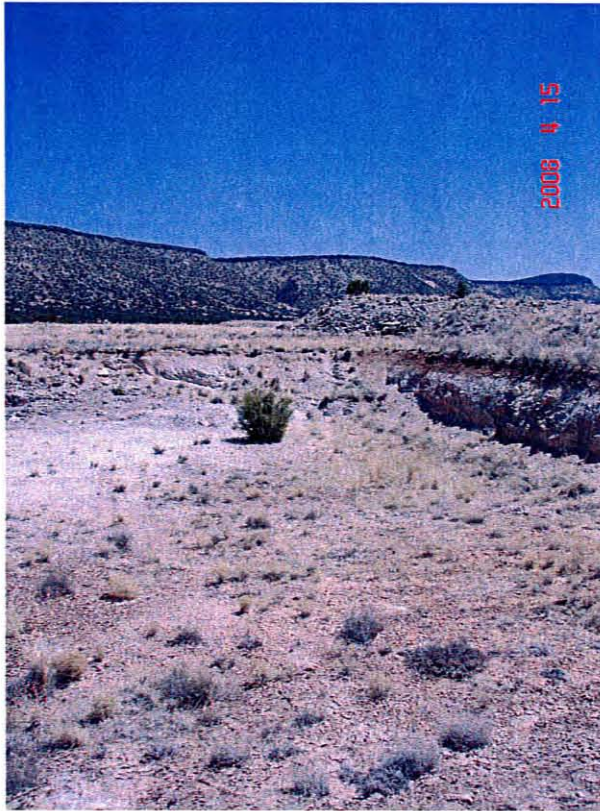
8. Land Use: No evidence of current land use was present (including grazing).

9. Off-Site Impacts: No off-site impacts were noted.

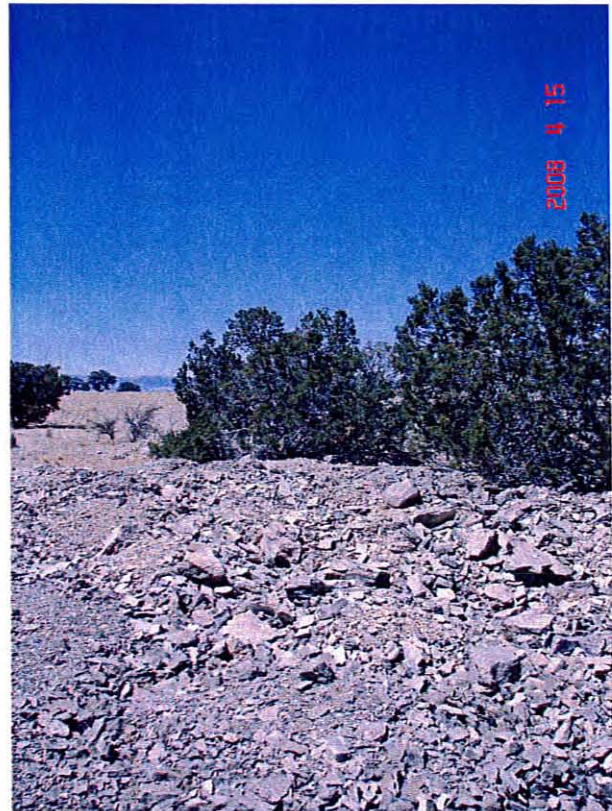
10. Topographic Features: The site is on top of a mesa, and is flat lying. Steep mesa faces are present to the west and east of the site.

11. Hydrogeology: Based on a review of the NMOSE iWaters database, the nearest well to the site is to the south approximately 2 miles. Depth to groundwater in this well is reported to be 70 feet.

The nearest surface water drainage feature is approximately one-tenth of a mile north of the site.



View east



View west



View north into shallow pit



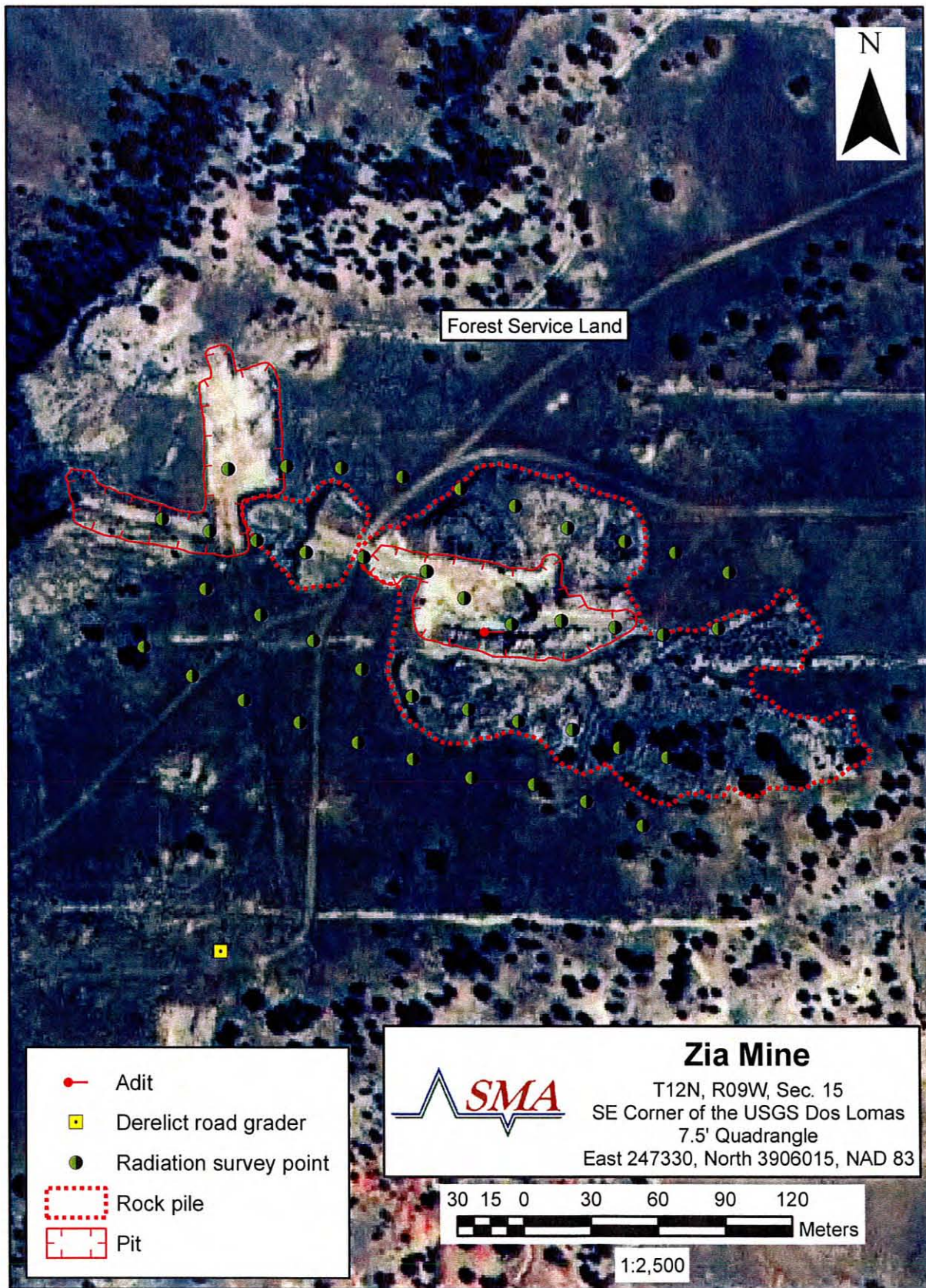
Adit



Main pit, view north



View northwest



AUM Field Survey Data Sheet

Site Zia Mine

Date <u>4/15/08</u>	Time On-Site	Time Off-Site	By <u>Baldwin</u> <u>Mertz</u>	
Weather Conditions:				
Disturbances	GPS#	Description	Dim/Area/Volume	Photo #'s
Shafts				
Adits	<u>Ad. + Ø</u>	<u>3'h x 9'w x 15'd</u>		
Pits	<u>p.t. Ø</u> <u>p.t. 1</u>	<u>235' x 100' x 6'd</u> <u>120' x 300' x 25'd</u>		
Waste Rock Dumps		<u>numerous</u>		
Tailings				
Trenches				
Roads				
Erosional Features				
Structures / Equipment	GPS#	Description	Dimensions	Photo #
Buildings				
Headframes				

AUM Field Survey Data Sheet

Site Zia

Equipment				
Soils	GPS#	Description	Extent	Photo #
Vegetation	GPS#	Description	Extent	Photo #
		20% trees 10% shrubs 10% forbs 30% grass 30% bare		
Wildlife	GPS#	Description		Photo #
		none		
Human Activity (non-mining, w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
		none		
Land Use (grazing, agricultural, roads, etc., w/in 0.5 mi of site)	GPS#	Description	Extent	Photo #
Nearby Residences / Wells (w/in 0.5 mi of site)	GPS#	Description	Distance to Site	Photo #
Topographic Features (roads, water courses, etc.)	GPS#	Description		Photo #

AUM Field Survey Data Sheet

Site Zia 2008-4-15

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G0	Rad. survey ✓	12	10
G1	"	15	13
G2	"	12	12
G3	"	12	12
G4	"	15	12
G5	"	16	14
G6	"	16	13
G7	"	17	14
G8	"	18	14
G9	" ✓	23	17
G10	" ✓	130	110
G11	"	110	100
G12	"	24	22
G13	"	70	50
G14	"	32	30

AUM Field Survey Data Sheet

Site Zia 2008-4-15

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G15	Rad. survey	40	36
G16	"	15	13
G17	"	17	15
G18	"	14	11
G19	" ✓	13	11
G20	" ✓	15	15
G21	"	25	22
G22	"	90	50
G23	"	38	22
G24	"	23	14
G25	"	36	34
G26	"	60	48
ADIT Ø	3' h x 8' w x 15' d	—	—
G27	Rad. survey cont'd	42	40
G28	"	24	21

AUM Field Survey Data Sheet

Site Zia 2008-4-15

Radiological Survey			
GPS#	Description	Reading Surface	Reading 4 feet
G29	Rad. survey cont'd	24	22
G30	"	32	26
G31	" ✓	44	40
G32	" ✓	20	17
G33	"	18	15
G34	"	32	26
G35	"	60	50
G36	"	34	34
G37	"	50	46
G38	"	21	16
G39	"	140	140
G40	"	100	90
G41	" ✓	14	12
PIT 0	6 ft deep pit x approx 30,000 ft ² ✓	—	—
PIT 1	²⁰ 30 ft deep pit x approx 20,000 ft ² ✓	—	—

